بسم الله الرحمن الرحيم

عنوان المحاضرة: Ectopic Pregnancy

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Causes of bleeding in early pregnancy (1st trimester)

1- Abortion 2-Vesicular mole 3-Ectopic pregnancy

Definition: Blastocyst isn't implanted in the normal uterine cavity

Incidence: 0.5 - 2 %

Sites of Ectopic:

1- Tube (most common) 90% ▶ -Interstitial 2%, Isthmus 5%, Ampulla 78%, Fimbriae **12**%

2- Ovary 3-Cervix 4-Rudimentary horn 5-Peritoneal cavity

Epidemiology: Leading cause of maternal death in early pregnancy (9%)

**(50 times more than normal labor & 10 times more than induced abortion)

- \downarrow Chance that pregnancy will occur again to 60 – 80 % only

Etiology:

- 1-Infections (Salpingitis, STDs) due to cilial damage, peritubal adhesions, ↓ muscle contractions
- 2-Congenital abnormalities of the fallopian tubes (e.g. Long tube)
- 3-Tumor (intraligamentary or ovarian) → Pressure on the tube
- 4- \downarrow Motility \rightarrow IUD with progestogen, Progesterone only CCP
- **IUD decrease only intrauterine pregnancy so appears like it is ↑ extrauterine pregnancy

Symptoms:

- **1-Pain:** due to tube extension, dull aching pain (If rupture \rightarrow intraperitoneal bleeding \rightarrow stabbing pain)
- 2-Bleeding: as the decidua inside the uterus detaches due to falling levels of progesterone
- 3-Tenderness with palpating of the cervix (Chandelier sign) (Yambing sign)

Outcome of pregnancy: (In tubes)

- *May be Undisturbed in 1st 8 weeks
- **1-Mole:** bleeding around pregnancy then fibrosis \rightarrow death of the embryo
- 2-Abortion: usually through the fimbriae to the abdomen
- 3-Rupture: usually at the anti-mesenteric side (*then pregnancy may be implanted in the mesentery & the broad ligament, and may even reaches full term),
- *Rupture → Intraperitoneal hemorrhage → Lt Shoulder pain + pallor & fainting
- **4-Full term pregnancy**

Diagnosis:

- 1) Early: Serum β -hCG \rightarrow 2 8 ml IU (doubling doesn't occur every 2 days)
- 2) U/S: Absent sac intrauterine with vaginal sonography (32 days) + β -hCG > 2000 ml IU or Absent with abdominal sonography (39 days) + β -hCG > 6000 ml IU
- 3) Laparoscopy (diagnostic & therapeutic)

D.D.:

Same symptoms \rightarrow 1) Appendicitis 2) Salpingitis (\uparrow WBCs & Temperature - Negative pregnancy test)

3) Small twisted ovarian cyst (Negative pregnancy test)



Treatment:

A) Medical: (kill trophoblast with methotrexate 30 mg/m² surface area)

Indications: Intact (undisturbed) pregnancy + Size < 3 cm + β-hCG level < 10000 ml IU/ml L

**Follow up with β-hCG level till it is < 16 ml IU

B) Laparotomy:

Indications: 1-Tubal rupture 2-Bad general condition (bleeding, low BP, ...)

C) <u>Laparoscopy</u>: In stable cases

*Conservative surgery (In intact): 1- Milking 2-Linear Salpingoscopy 3- Partial Salpingectomy

Rare Types:

- 1) In Ovaries: -Intact tube -Ovarian ligament between uterus and pregnancy -Ovarian tissue in analysis
- 2) In Cervix: TTT is Hysterectomy to control bleeding
- 3) Advanced abdominal pregnancy: due to rupture of anti-mesenteric border of the tube

